| Index of Claims |  |
|-----------------|--|
|                 |  |

| Application No. | Applicant(s) |  |
|-----------------|--------------|--|
| 10/667,108      | ROOT ET AL.  |  |
| Examiner        | Art Unit     |  |

| <b>√</b> | Rejected | - | (Through numeral)<br>Cancelled |
|----------|----------|---|--------------------------------|
| =        | Allowed  | + | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| _ | Interference |

Donald E. McElheny, Jr.

| A | Appeal   |
|---|----------|
| o | Objected |

2857

| Cla          | aim      |                 |          |         | Da           | te      |  |  |          |        | Cla                    | im        |          |        |              | Date            |          |  |          | С     | laim       |          |                 |          |          | )ate     |           | _             |          |   |
|--------------|----------|-----------------|----------|---------|--------------|---------|--|--|----------|--------|------------------------|-----------|----------|--------|--------------|-----------------|----------|--|----------|-------|------------|----------|-----------------|----------|----------|----------|-----------|---------------|----------|---|
| <del></del>  | اهر      | 8               |          |         |              |         |  |  |          |        | _                      | <u>la</u> |          | l      |              |                 |          |  |          | _     | <u> </u>   |          |                 |          |          |          | l         |               |          |   |
| Final        | Original | 7/29/04         |          |         |              |         |  |  |          |        | Final                  | Original  |          | ł      |              |                 |          |  |          | Final | Original   |          |                 |          |          |          |           |               |          |   |
| _            | 0        |                 | - [      |         |              |         |  |  |          |        |                        | 0         |          | ı      |              |                 | ļ        |  |          |       | 0          |          |                 |          |          | į        | ŀ         |               |          |   |
|              | 1        | Ξ               |          |         |              |         |  |  |          |        |                        | 51        |          |        |              |                 |          |  |          |       | 101        |          |                 |          |          |          |           | ゴ             |          |   |
| _            | 2        | =               | _        | _       | _            | _       |  | <u> </u>   |          |        |                        | 52        |          |        |              |                 |          | $\perp \perp$                          | _        |       | 102        |          |                 |          |          |          | $\Box$    |               |          |   |
|              | 3        | =               | _        | +       | +            | ┼-      | ļ  | ├  | _        |        | <u> </u>               | 53        | $\vdash$ | +      | ↓            | $\vdash$        | _        | ++                                     | -        |       | 103        | ļ.,      | Н               |          | 4        |          |           | $\dashv$      | 4        | _ |
|              | 5        | =               | $\dashv$ | +       | +-           | +-      | +-   | ╁  |          |        |                        | 54<br>55  |          | +      | ╁            | H               | -        | ++                                     | -        |       | 104<br>105 |          | $\vdash$        | -        |          |          |           | $\dashv$      | 4        |   |
|              | 6        | =               | $\dashv$ | +       | +-           | ╁╌      | ┼  | ╁╴   |          |        |                        | 56        | $\vdash$ | +      | <del> </del> | H               | -        | ++                                     | -        |       | 106        |          | H               | 一        | ᅱ        | -        | -         | +             | +        |   |
|              | 7        | =               |          | +       | +            | +       | $\vdash$   | $\vdash$   | _        |        |                        | 57        | $\vdash$ | $\top$ | <del> </del> |                 | +        | + +                                    |          |       | 107        |          | $\vdash$        | _        | _        | $\dashv$ |           | $\dashv$      |          |   |
|              | 8        | Ξ               | $\dashv$ | ┪       | ┪            | $\top$  |  | T  |          |        |                        | 58        |          | T      |              | П               | $\top$   | $\top$                                 |          |       | 108        |          | $\Box$          |          | 一        |          | 1         | $\dashv$      | T        |   |
|              | 9        | =               |          |         |              |         |  |  |          |        |                        | 59        |          |        |              |                 |          |  |          |       | 109        |          |                 |          |          |          |           | $\Box$        |          |   |
|              | 10       | Ξ               | $\bot$   |         |              |         |  |  |          |        |                        | 60        |          |        |              |                 |          |  | _        |       | 110        |          | П               |          | $\Box$   |          |           | $\bot$        | J        |   |
|              | 11       | =               | $\perp$  | $\perp$ | $\bot$       | ╁-      | 1  | <u> </u>   | _        |        |                        | 61        | -        | $\bot$ | <del> </del> | $\sqcup$        |          | $\vdash \vdash$                        | _::::    |       | 111        | _        | Н               | _        | _        | _        | _         | $\dashv$      |          |   |
|              | 12       | =               |          | - -     | +            | +-      | ╀  | ┼  | <b>—</b> |        |                        | 62<br>63  |          | +      | ╁            |                 | +-       | ++                                     | - ::::   |       | 112        |          | $\vdash \vdash$ | $\dashv$ |          | -        |           | +             | -        | _ |
| <u> </u>     | 13<br>14 | =               | -        | +       | +            | +       | $\vdash$   | $\vdash$   |          |        |                        | 64        | $\vdash$ | +      | ╁┈           | H               | +        | +                                      | - ::::   |       | 113<br>114 | H        | $\vdash \vdash$ |          | $\dashv$ |          |           | <del> -</del> |          | - |
|              | 15       | =               | $\dashv$ | +       | +            | +       | $\vdash$   | 1  |          |        |                        | 65        | $\vdash$ | +      | +            | $\vdash \vdash$ | +        | ++                                     | -        |       | 115        | -        | ┥               | -        | $\dashv$ | -        | $\dashv$  | $\dashv$      | $\dashv$ | - |
|              | 16       | =               |          | $\top$  | $\top$       | T       |  | 1  |          |        |                        | 66        | $\vdash$ | +      | T            | H               | $\top$   | ††                                     | 1        | _     | 116        | $\vdash$ | ⇈               |          | $\dashv$ | _        | $\dashv$  | +             | $\dashv$ |   |
|              | 17       | =               | 1        | $\top$  | 1            | 1       |  | T  |          |        |                        | 67        |          | 1      | t            | П               | 十        | 11                                     |          |       | 117        |          | П               |          | $\neg$   |          | $\dashv$  | $\dashv$      | 7        |   |
|              | 18       | =               |          |         |              |         |  |  |          |        |                        | 68        |          |        |              |                 |          |  |          |       | 118        |          |                 |          |          |          |           |               |          |   |
|              | 19       | =               |          |         | $\downarrow$ | $\perp$ |  |  |          |        |                        | 69        |          |        |              | Ц               | _ _      | $\sqcup$                               |          | -     | 119        |          |                 |          |          |          |           |               |          |   |
|              | 20       | =               |          | $\perp$ | 4            | ╄       | ļ  | ┖  | _        |        |                        | 70        | $\sqcup$ | _      | 1            | $\sqcup$        | $\perp$  | $\perp \perp$                          | _        |       | 120        | <u> </u> | Ш               |          | $\dashv$ |          |           |               |          |   |
|              | 21       | =               | +        | +       | +            | +       | -  | ╀  |          |        |                        | 71        |          | -      | $\vdash$     | $\sqcup$        | -        | ++                                     |          |       | 121        |          | $\square$       | _        |          | _        |           | -             | 4        | _ |
| -            | 22<br>23 | =               |          | +       | +            | ╁       | 1  | Ͱ  |          |        |                        | 72<br>73  | $\vdash$ | -      | -            | $\vdash$        | +        | ╁┼                                     | -        |       | 122<br>123 | -        |                 |          |          |          |           |               | $\dashv$ | _ |
| -            | 24       | =               |          | +       | +-           | ╁       | -  | $\vdash$   |          |        |                        | 74        | H        | +      | <del> </del> | H               | +        | +-+                                    | -        |       | 124        |          | Н               |          | $\dashv$ |          | -         | -+            |          |   |
| $\vdash$     | 25       | =               | $\dashv$ | _       | +-           | +       | <del>                                     </del> | $\vdash$   |          |        |                        | 75        | $\vdash$ | +      | +            | $\vdash$        | $\dashv$ | ++                                     |          |       | 125        |          | H               |          | $\dashv$ |          | $\dashv$  | +             | 1        |   |
|              | 26       | =               |          |         | $\top$       | 1       |  | T  |          |        |                        | 76        |          | 1      |              |                 | $\neg$   |  |          |       | 126        |          | П               |          |          |          | $\exists$ | 十             |          |   |
|              | 27       | =               |          |         |              |         |  |  |          |        |                        | 77        |          |        |              |                 |          |  |          |       | 127        |          | П               |          |          |          |           |               | İ        |   |
|              | 28       | =               |          | 4       | $\perp$      |         |  | <u> </u>   |          |        |                        | 78        |          |        |              |                 | _        |  |          |       | 128        |          |                 |          |          |          |           |               |          |   |
|              | 29       | Ξ               |          | _       | - -          | 4       | ļ  | _  |          |        |                        | 79        | <u> </u> | 4      | <u> </u>     |                 |          | 1                                      | _ ::::   |       | 129        | ļ        | Ш               | _        | _        | _        |           | 4             | _        | _ |
|              | 30       | =               |          |         | +            | ┿       |  | 1  | <u> </u> |        |                        | 80        |          | +-     | ┼            | -               |          | ++                                     | -        |       | 130        |          | Н               | $\dashv$ | <u></u>  | _        |           | $\dashv$      | _        |   |
|              | 31<br>32 | =               |          | ┿       | +            | ╁       |  | +-   | -        |        |                        | 81<br>82  |          | - -    | ⊢            | $\vdash$        |          | ++                                     | -        |       | 131<br>132 | -        | Н               | -        | _        | $\dashv$ |           | +             | $\dashv$ | - |
|              | 33       | =               |          | +-      | ╁            | +-      | ╁  | <del>                                     </del> | $\vdash$ |        |                        | 83        |          | +      | $\vdash$     |                 |          |  | -        |       | 133        |          | H               | $\dashv$ |          | -        | 1         | +             |          | - |
|              | 34       | =               | $\top$   | +       | +            | +-      | T  | T  |          |        |                        | 84        | $\vdash$ | $\top$ | $\vdash$     | $\vdash$        | $\dashv$ | +                                      | -        |       | 134        |          | $\vdash$        | $\dashv$ | $\dashv$ | T        |           | +             | 7        |   |
|              | 35       | =               |          |         |              |         | Ľ  |  |          |        |                        | 85        |          |        |              |                 |          |  |          |       | 135        |          |                 |          |          |          |           |               |          |   |
|              | 36       | =               | $\Box$   | $\perp$ | I            |         |  |  |          |        |                        | 86        |          |        |              |                 |          |  |          |       | 136        |          |                 |          |          |          |           | $\Box$        |          |   |
|              | 37       | =               | $\perp$  | $\perp$ | $\perp$      |         | 1  | 1  | L        |        |                        | 87        |          | 4      | lacksquare   |                 |          | $\prod$                                | 4        |       | 137        |          |                 |          | _[       | _[       |           | $\perp$       | $\Box$   |   |
|              | 38       | =               | +        | +       | +            | ╀       |  | ـ  | -        |        |                        | 88        |          | 4-     | ╄            |                 | -        | ++                                     | 4        |       | 138        | <u> </u> | $\sqcup$        | _        | _        | 4        |           | $\dashv$      | _        | _ |
| <u> </u>     | 39<br>40 | $\vdash \vdash$ | +        | +       | +            | +       | 1  | +  |          |        |                        | 89<br>90  |          | +      | -            | $\vdash$        |          | +                                      | -        |       | 139<br>140 | -        | $\vdash$        | $\dashv$ | $\dashv$ | 4        | $\dashv$  | +             | $\dashv$ | - |
| <del> </del> | 41       | $\vdash \vdash$ | +        | +       | +            | +       | $\vdash$   | $\vdash$   |          |        |                        | 91        | -        | +-     | -            | $\vdash \vdash$ |          | ++                                     | $\dashv$ |       | 141        | -        | $\vdash \vdash$ | $\dashv$ | +        | $\dashv$ | $\dashv$  | $\dashv$      | +        | - |
| <u> </u>     | 42       | $\vdash \vdash$ | +        | +       | +            | 1       | 1  | H  |          |        |                        | 92        | +        | +      | +            | $\vdash \vdash$ | +-       | ++                                     | -        |       | 142        | $\vdash$ | $\vdash$        | $\dashv$ | +        | $\dashv$ | +         | +             | +        | _ |
| <u> </u>     | 43       | $\Box$          | 7        | $\top$  | $\top$       | 1       | T  | T  |          |        |                        | 93        | $\vdash$ | $\top$ | T            | $\sqcap$        | $\top$   | 1-1                                    |          |       | 143        | Т        | H               | _        | $\dashv$ | $\dashv$ | 1         | +             | $\dashv$ |   |
|              | 44       |                 |          |         | Ι            |         |  |  |          |        |                        | 94        |          |        |              |                 |          |  |          |       | 144        |          |                 |          |          |          |           |               |          |   |
|              | 45       |                 |          | $\prod$ | $\perp$      |         |  |  |          |        |                        | 95        |          |        |              |                 |          |  |          |       | 145        |          |                 |          |          |          |           |               |          |   |
| <u> </u>     | 46       |                 | 4.       | $\bot$  | ╀            | $\bot$  | <del> </del>                                     | <b> </b> _                                       |          |        | <u> </u>               | 96        |          | 4      |              | $\sqcup$        | $\bot$   | ++                                     | 4        |       | 146        | _        | $\sqcup$        |          | _        | _        | [         | $\perp$       | _[       |   |
| <b> </b>     | 47       | $\vdash \vdash$ | _        |         | +            | +       |  | $\vdash$   |          |        |                        | 97        |          | +-     | $\vdash$     | $\vdash \vdash$ | -        | ++                                     | -        |       | 147        | $\vdash$ | $\sqcup$        | $\dashv$ |          | _        |           | $\dashv$      | 4        | _ |
| <u> </u>     | 48<br>49 | $\vdash \vdash$ | +        |         | +            | +       | $\vdash$   | ╀  | $\vdash$ |        |                        | 98<br>99  |          | +-     | $\vdash$     | $\vdash \vdash$ | $\dashv$ | +                                      | -        |       | 148<br>149 | -        | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$      | $\dashv$ | - |
| ļ            | 50       | $\vdash$        | +        | +       | +-           | +       | -  | $\vdash$   | $\vdash$ |        | $\vdash \vdash \vdash$ | 100       | $\vdash$ | +      | ┼┈           | $\vdash \vdash$ | +-       | +                                      | -        |       | 150        | $\vdash$ | $\vdash$        | $\dashv$ | -        | -        | $\dashv$  | +             | $\dashv$ | - |
| Щ.           | 100      | L               |          |         |              |         | Ц.,  | Ц_   |          | ļ::::i | L1                     | 100       | டட்ட     |        | 1_           |                 |          | ــــــــــــــــــــــــــــــــــــــ | :::::    |       | 1 120      | L        | بلسا            |          |          |          |           | L             |          |   |